

Water Tool™ Filters

# 24" SAND MEDIA FILTERS



**RAINPRO**<sup>®</sup>  
Intelligent Irrigation Solutions™

# Filter Tank Specifications

## **MANIFOLD TOGETHER AS MANY TANKS AS NEEDED FOR EACH APPLICATION**



Flow Rate: 40-100 GPM per tank

Tank Pressure Rating: 80 PSI

Tank Media Volume: 20 Gallons per tank

- Back Flush Operation, Minimum\* 15 PSI, 48 GPM \*depends on Media
- Back Flush Operation can be initiated manually at each tank or Automatically in conjunction with the Back Flush Controller and PD Switch

# Benefits of the Water Tool Filter System

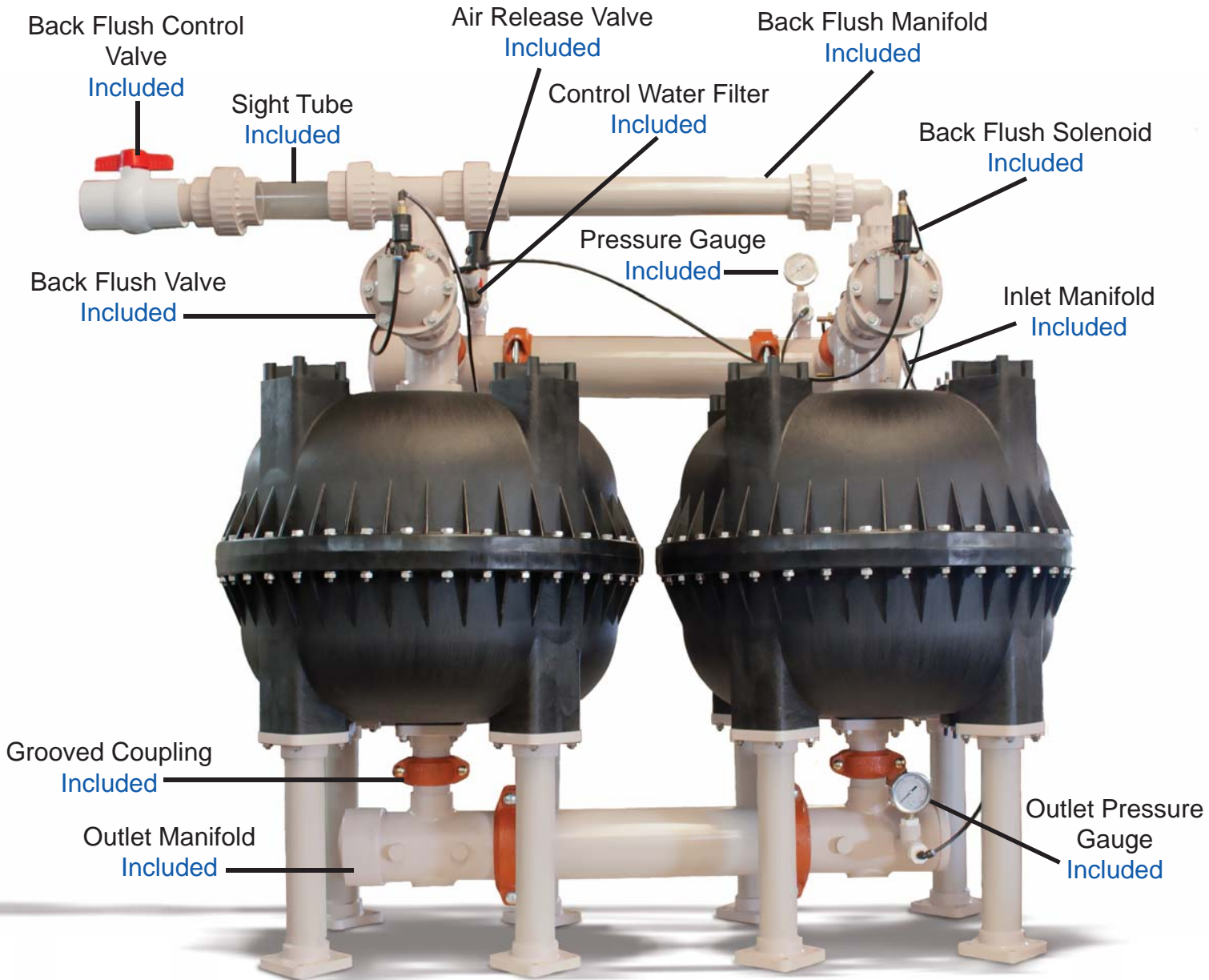
All Systems Include:

- 4" Inlet and 4" Outlet manifolds
- 2" Back Flush Manifolds with sight tube and back flush control valve
- Also included are; Inlet and Outlet pressure gauges, Air Release Valves, Back Flush Control Water Filters, Manual Back Flush Operation Control Levers, Solenoids for Automatic Operation
- Tanks have Access Ports on top and bottom and a drain port on the bottom.

Automatic Systems Also Include:

- Back Flush Controllers, Pressure Differential Switch and one Decoder for each Tank

Superior underdrain design requires less water per back flush and provides a more thorough cleaning of media bed.



# JUST ADD MEDIA!

# Under Drain

**The Water Tool Underdrain has both a balanced output and the largest surface area coverage of any media filter.**

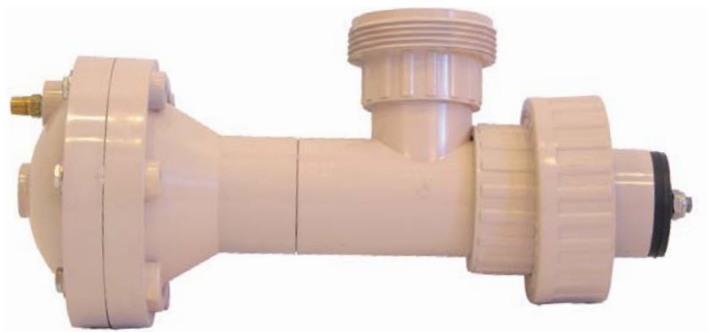


Water Tool Under Drain  
All Water Directed Vertically

- All Back Flush water is directed vertically to lift and clean the entire media bed. Channeling of water is virtually eliminated. (No wasted back flush water directed downward or horizontally)
- Due to more efficient design, less runtime of Back Flush Required.
- Saves Water

# Back Flush Valve

- Dedicated Custom back flush valve provides positive opening and closing at wide range of pressure (18 to 80 PSI) and flow (45 to 120 GPM).
- Back Flush Valve is easy to service or replace with union connection. Complete valve, part number WTA-401 is only \$120 list price.



Back Flush Valve with Union Connection Part# WTA-401  
List Price \$120

# AUTOMATIC SYSTEMS INCLUDE: BACK FLUSH CONTROLLER and PD SWITCH



Utilizes “Two Wire” technology  
for control of all valves



Pressure Differential  
Switch

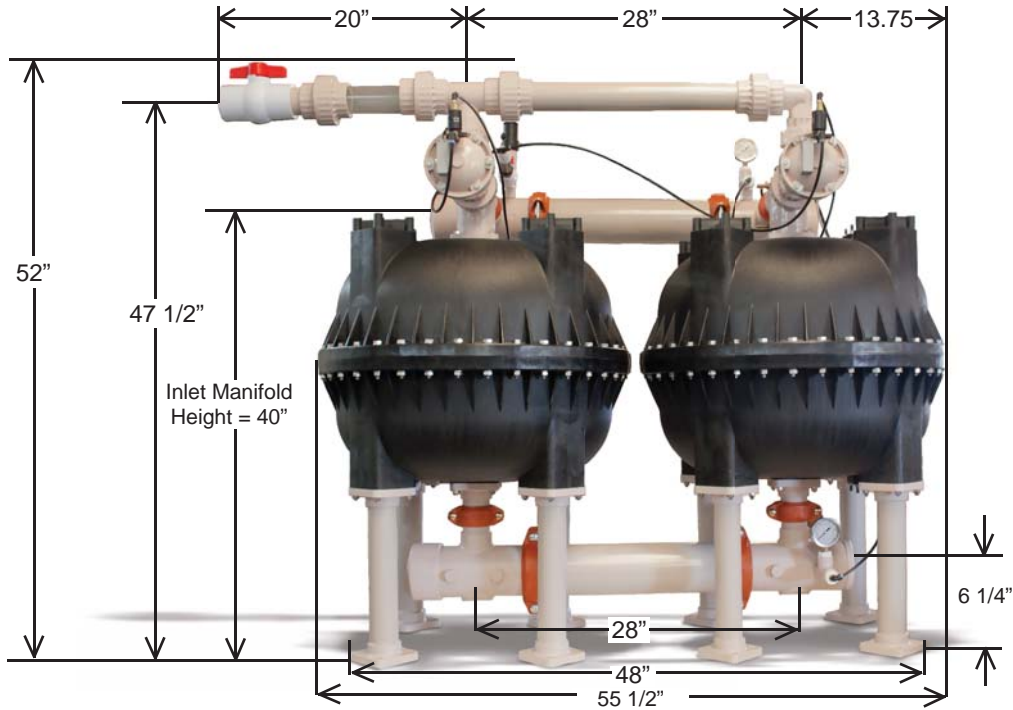
## Water Tool Sand Media Filter Back Flush Controller

A Back Flush Controller specifically designed for back flushing multiple Sand Media Filters incorporating the following user friendly features.

1. Can control up to 96 separate Back Flush valves.
2. Adjustable Back Flush duration from 15 to 180 seconds in 15 second increments or from 180 to 300 seconds in 30 second increments.
3. A dwell time between each filter Back Flush can be set from 15 to 180 seconds.
4. Flushing frequency can be set from 1 to 16 hours in 1 hour increments or 16 to 24 hours in 2 hour increments.
5. May initiate a manual flush cycle anytime with a push of a button.
6. The controller can initiate a Back Flush cycle using the Water Tool pressure differential switch, part# WTA-151. A Pressure Differential switch is shipped standard with all “Automatic filter systems.”
7. Controller will display the number of actual Back Flush cycles during a re-settable time period.
8. Utilizing “Logic Two Wire Technology” makes for a cost effective and efficient installation or system expansion.

**All these easy to use features are in a simple Dial and Button format.**

# Operating System Information



	Overall Filter Dimensions			Pad Size Minimum		Pad Size Suggested		Media Gallons	Manifold Connections		PSI Rating		
	L	x	W	x	H	L	x		W	Inlet		Outlet	
2 Tanks	62"		36		52"	56"	36"	80"	60"	40	4"	4"	80
3 Tanks	90"		36"		52"	84"	36"	108"	60"	60	4"	4"	80
4 Tanks	118"		36"		52"	112"	36"	136"	60"	80	4"	4"	80
4Q Tanks	62"		67"		52"	56"	67"	80"	91"	80	4"	4"	80

	FILTERED PARTICLE SIZE (MICRONS)	VOLUME OF MEDIA PER TANK	BACK WASH FLOW (GPM/LPM)		MAX FLOW RATE PER TANK*
			10% EXPANSION	35% EXPANSION	
#12 SILICA SAND	~40μ	17gal	100 GPM 379 LPM	160 GPM 606 LPM	100 GPM 379 LPM
#16 SILICA SAND	~30μ	17gal	48 GPM 182 LPM	100 GPM 379 LPM	100 GPM 379 LPM
#20 SILICA SAND	~20μ	17gal	36 GPM 136 LPM	60 GPM 227 LPM	80 GPM 303 LPM
14x40 MESH ZEOLITE	<5μ	17gal	28 GPM 106 LPM	60 GPM 227 LPM	50 GPM 197 LPM

\*MAXIMUM RECOMMENDED FLOW RATE FOR MEDIA TO ACHIEVE OPTIMAL EFFECTIVE FILTRATION (EXCEEDING MAX FLOW RATE WILL INCREASE PRESSURE DIFFERENTIAL AND DECREASE FILTRATION PERFORMANCE.)

FLOW RATE (GPM)	PRESSURE LOSS (PSI)				
	GLASS	ZEOLITE	#20 SAND	#16 SAND	#12 SAND
60	1.5	1.5	1.5	1.0	1.0
80	2.0	2.5*	3.0	2.0	1.5
100	4.0*	4.0*	4.5*	3.5	3.0
120*	5.5*	5.0*	5.5*	5.0*	4.5

\*NOT RECOMMENDED

# ORDERING INFORMATION

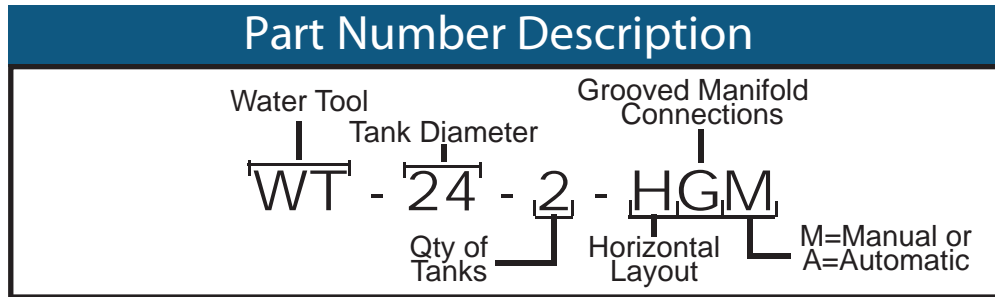
## System Part Numbers

System Part Numbers include all of the following:

Inlet Manifolds, Outlet Manifolds, Back Flush Manifold(s), Sight Tube(s), Back Flush Control Valve(s), Pressure Gauges, Air Release Valves, Control Water Filter, all with proper sized groove coupler fittings.

Automatic Systems Include:

Back Flush Controller, Pressure Differential Switch and one decoder for each back flush valve.



Part Number	Layout □= Automatic ○= Tank	Inlet/Outlet/Backflush Grooved Connector Size	Flow in GPM	List Price
WT - 24 - 2 - HGM		4"/4"/2"	80-200	\$4191
WT - 24 - 2 - HGA		4"/4"/2"	80-200	\$4927
WT - 24 - 3 - HGM		4"/4"/2"	120-300	\$6264
WT - 24 - 3 - HGA		4"/4"/2"	120-300	\$7093
WT - 24 - 4 - HGM		4"/4"/2"	160-400	\$8382
WT - 24 - 4 - HGA		4"/4"/2"	160-400	\$9254
WT - 24 - 4Q - HGM		4"/4"/2"	160-400	\$8082
WT - 24 - 4Q - HGA		4"/4"/2"	160-400	\$8952
WTA - 150 - D		Single Station Decoder	NA	\$43

For systems of 5 tanks or more, use any combination of equipment above to meet your flow requirements. Purchase one system that is Automatic and the balance of tanks manual. For each Manual tank, purchase one each WTA - 150 - D decoder to tie all tanks into the Automated system

For systems of 5 or more tanks, Don't hesitate to contact factory at 800-468-0071 for pricing and suggested layout options. Above Systems can be combined for higher flow rates. Additional manifolds required.

**Freight Terms:** Water Tool Freight terms are FOB factory, Lindsay, California, 93247

**Filter Warranty:**

Hit Products Corporation warrants to its trade customers that its Water Tool Filter products will be free from defects in material and workmanship, from the original date of purchase, for a period of ONE YEAR. Within the warranty period, Hit Products Corporation, will have at its sole discretion, the option to repair or replace all or part of defective product, or refund part or the entire purchase price. Defective products must be returned, freight prepaid, at the buyers expense after such product return authorization has been given by Hit Products Corporation to the Buyer. Hit Products Corporation does not warranty any labor claims, including but not limited to labor installation removal and reinstallation of said product. Hit Products Corporation shall not be responsible or liable for any loss of profit, lost savings or loss of sales.

# FOR LOWER FLOWS... CHECK OUT THE WATER TOOL 12" SAND MEDIA FILTERS

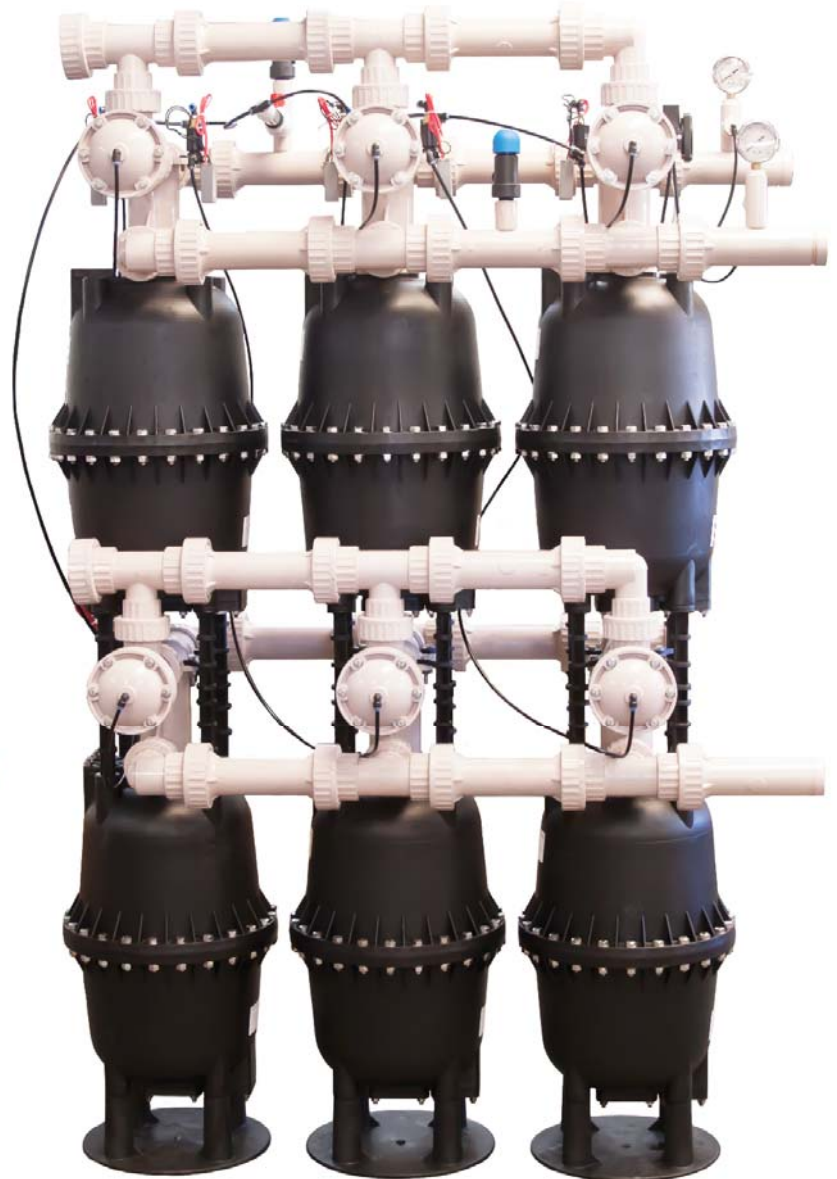
**Flow:** 15-25 GPM per tank

**Tank Pressure Rating:** 80 PSI

**Tank Media:** 5 gallons per tank



30 - 50 GPM



90 - 150 GPM

**Complete Systems, Manual or Automatic Operation**

May 28, 2015